

ENTERED



1600

RAW SEQUENCE LISTING

DATE: 08/04/2003

PATENT APPLICATION: US/09/963,693A TIME: 14:43:17

Input Set: N:\Crf3\RULE60\09963693.raw.txt
Output Set: N:\CRF4\08042003\1963693A.raw

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4 <110> APPLICANT: Ruvkun, Gary
         Ogg, Scott
 8 <120> TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
        IMPAIRED GLUCOSE TOLERANCE CONDITIONS
12 <130> FILE REFERENCE: 00786/351004
14 <140> CURRENT APPLICATION NUMBER: 09/963,693A
15 <141> CURRENT FILING DATE: 2001-09-25
17 <150> PRIOR APPLICATION NUMBER: 09/205,658
18 <151> PRIOR FILING DATE: 1998-12-03
20 <150> PRIOR APPLICATION NUMBER: 08/857,076
21 <151> PRIOR FILING DATE: 1997-05-15
23 <150> PRIOR APPLICATION NUMBER: 08/888,534
24 <151> PRIOR FILING DATE: 1997-07-07
26 <150> PRIOR APPLICATION NUMBER: US98/10080
27 <151> PRIOR FILING DATE: 1998-05-15
29 <160> NUMBER OF SEQ ID NOS: 328
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 20
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
41 <400> SEQUENCE: 1
42 cgctacggca aaaaagtgaa
                                                                            20
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 18
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
52 <400> SEQUENCE: 2
53 cgatgatgaa gatacccc
                                                                            18
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 20
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
63 <400> SEQUENCE: 3
64 tgatgcgaac ggcgatcgat
                                                                            20
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 20
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Input Set : N:\Crf3\RULE60\09963693.raw.txt
Output Set: N:\CRF4\08042003\I963693A.raw

68 <212> TYPE: DNA	
69 <213> ORGANISM: Artificial Sequence	
71 <220> FEATURE: 72 <223> OTHER INFORMATION: Primer/probe derived from C. elegans	
72 <223 OTHER INFORMATION. FITMET/Probe derived from C. eregans 74 <400> SEQUENCE: 4	
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77 <210> SEQ ID NO: 5	20
78 <211> LENGTH: 22	
79 <212> TYPE: DNA	
80 <213> ORGANISM: Artificial Sequence	
82 <220> FEATURE:	
83 <223> OTHER INFORMATION: Primer/probe derived from C. elegans	Ÿ
85 <400> SEQUENCE: 5	
86 ggtttaatta cccaagtttg ag	22
88 <210> SEQ ID NO: 6	
89 <211> LENGTH: 20	
90 <212> TYPE: DNA	
91 <213> ORGANISM: Artificial Sequence	
93 <220> FEATURE:	
94 <223> OTHER INFORMATION: Primer/probe derived from C. elegans	
96 <400> SEQUENCE: 6	
97 gctcacgggt cacacaacga	. 20.
99 <210> SEQ ID NO: 7	
100 <211> LENGTH: 20	
101 <212> TYPE: DNA	
102 <213> ORGANISM: Artificial Sequence	
104 <220> FEATURE:	
105 <223> OTHER INFORMATION: Primer/probe derived from C. elegans	
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110 <210> SEQ ID NO: 8	
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112 <212> TYPE: DNA	
113 <213> ORGANISM: Artificial Sequence	
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118 <400> SEQUENCE: 8	. 21
119 tgagggccaa ctaaagaaga c 121 <210> SEQ ID NO: 9	21
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123 <212> TYPE: DNA	
124 <213> ORGANISM: Artificial Sequence	
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127 <223> OTHER INFORMATION: Primer/probe derived from C. elegans	
129 <400> SEQUENCE: 9	
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132 <210> SEQ ID NO: 10	
133 <211> LENGTH: 20	
134 <212> TYPE: DNA	

RAW SEQUENCE LISTING DATE: 08/04/2003 PATENT APPLICATION: US/09/963,693A TIME: 14:43:17

Input Set: N:\Crf3\RULE60\09963693.raw.txt
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137 <220> FEATURE:
138 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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143 <210> SEQ ID NO: 11
144 <211> LENGTH: 5816
145 <212> TYPE: DNA
146 <213> ORGANISM: Caenorhabditis elegans
148 <220> FEATURE:
149 <221> NAME/KEY: misc feature
150 <222> LOCATION: (1)...(5816)
151 <223> OTHER INFORMATION: n = A, T, C or G
153 <400> SEQUENCE: 11
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155 ctccccgaaa aaccaacaaa aaacacaagt ttttgaacac ttgtaaatgc agacagaacg
                                                                         120
                                                                         180
156 atgacgagaa tgaatattgt cagatgtcgg agacgacaca aaattttgga aaatttggaa
157 gaagagaatc tcggcccgag ctgctcgtcg acgacttcaa caaccgctgc caccgaagct
                                                                         240
                                                                         300
158 ctcggaacaa ccactgagga tatgaggctt aagcagcagc gaagctcgtc gcgtgccacg
159 gagcacgata ttgtcgacgg caatcaccac gacgacgagc acatcacaat gagacggctt
                                                                         360
160 cgacttgtca aaaattcgcg gacgcggcgt agaacgacgc ccgattcaag tatggactgc
                                                                         420
161 tatgaggaaa acccgccatc acaaaaactt caataaatta ttcttggatt tctaaaaagt
                                                                         480
162 catcaatgac gtcattaatg cttttactgc tattcgcttt tgtacagccg tgtgcctcaa
                                                                         540
                                                                         600
163 tagtcgaaaa acgatgcggc ccaatcgata ttcgaaatag gccgtgggat attaagccgc
164 aatggtcgaa acttggtgat ccgaacgaaa aagatttggc tggtcagaga atggtcaact
                                                                         660
165 gcacagtggt ggaaggttcg ctgacaatct catttgtact gaaacacaag acaaaagcac
                                                                         720
                                                                         780
166 aagaagaaat gcatcgaagt ctacagccaa gatattccca agacgaattt atcacttttc
                                                                         840
167 cgcatctacg tgaaattact ggaactctgc tcgtttttga gactgaagga ttagtggatt
                                                                         900
168 tgcgtaaaat tttcccaaat cttcgtgtaa ttggaggccg ttcgctgatt caacactatg
                                                                         960
169 cgctgataat ttatcgaaat ccggatttgg agatcggtct tgacaagctt tccgtaattc
170 gaaatggtgg tgtacggata atcgataatc gaaaactgtg ctacacgaaa acgattgatt
                                                                        1020
171 ggaaacattt gatcacttct tccatcaacg atgttgtcgt tgataatgct gccgagtacg
                                                                        1080
172 ctgtcactga gactggattg atgtgcccac gtggagcttg cgaagaggat aaaggcgaat
                                                                        1140
173 caaagtgtca ttatttggag gaaaagaatc aggaacaagg tgtcgaaaga gttcagagtt
                                                                        1200
174 gttggtcgaa caccacttgc caaaagtctt gtgcttatga tcgtcttctt ccaacgaaag
                                                                        1260
175 aaatcggacc gggatgtgat gcgaacggcg atcgatgtca cgatcaatgc gtgggcggtt
                                                                        1320
176 gtgagcgtgt gaatgatgcc acagcatgcc acgcgtgcaa gaatgtctat cacaagggaa
                                                                        1380
177 agtgtatcga aaagtgtgat gctcacctgt accttctcct tcaacgtcgt tgtgtgaccc
                                                                        1440
178 gtgagcagtg tctgcagctg aatccggtgc tctcgaacaa aacagtgcct atcaaggcga
                                                                        1500
179 cggcaggcct ttgctcggat aaatgtcccg atggttatca aatcaacccg gatgatcatc
                                                                        1560
                                                                        1620
180 gagaatgccg aaaatgcgtt ggcaagtgtg agattgtgtg cgagatcaat cacgtcattg
                                                                        1680
181 atacgtttcc gaaggcacag gcgatcaggc tatgcaatat tattgacgga aatctgacga
                                                                        1740
182 tcgagattcg cggaaaacag gattcgggaa tggcgtccga gttgaaggat atatttgcga
                                                                        1800
183 acattcacac gatcaccggc tacctgttgg tacgtcaatc gtcaccgttt atctcgttga
184 acatgttccg gaatttacga cgtattgagg caaagtcact gttcagaaat ctatatgcta
                                                                        1860
185 tcacagtttt tgaaaatccg aatttaaaaa agctattcga ttcaacgacg gatttgacgc
                                                                        1920
186 ttgatcgtgg aactgtgtca attgccaata acaagatgtt atgcttcaag tatatcaagc
                                                                        1980
187 agctaatgtc aaagttaaat ataccactcg atccgataga tcaatcagaa gggacaaatg
                                                                        2040
```

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			•				
189	actcggtctt	ctttagttgg	ccctcattca	acattaccga	tatagatcag	cgaaagtttc	2160
190	tcggctacga	gctcttcttc	aaagaagtcc	cacgaatcga	tgagaacatg	acgatcgaag	2220
191	aggatcgaag	tgcgtgtgtc	gattcgtggc	agagtgtctt	caaacagtac	tacgagacgt	2280
192	cgaacggtga	accgaccccg	gacattttta	tggatattgg	accgcgcgag	cgaattcggc	2340
193	cgaatacgct	ctacgcgtac	tatgtggcga	cgcagatggt	gttgcatgcc	ggtgcgaaga	2400
194	acggtgtatc	gaagattggt	tttgtgagga	cgagctacta	tacgcctgat	cctccgacgt	2460
195	tggcactagc	gcaagtcgat	tcggacgcta	ttcatattac	gtgggaagcg	ccgctccaac	2520
196	cgaacggaga	cctcacgcat	tacacaatta	tgtggcgtga	gaatgaagtg	agcccgtacg	2580
197	aggaagccga	aaagttttgt	acagatgcaa	gcacccccgc	aaatcgacaa	cgcacgaaag	2640
198	atccgaaaga	gacgattgta	gccgataagc	cagtcgatat	tccgtcatca	cgtaccgtag	2700
199	ctccgacact	tttgactatg	atgggtcacg	aagatcagca	gaaaacgtgc	gctgcaacgc	2760
200	ccggttgttg	ttcgtgttcg	gctatcgaag	aatcatcgga	acagaacaag	aagaagcgac	2820
			gaatcatctg				2880
202	taatgccgag	agacacgatg	cgagtgagac	gatcaattga	agacgcgaat	cgagtcagtg	2940
203	aagagttgga	aaaagctgaa	aatttgggaa	aagctccaaa	aactctcggt	ggaaagaagc	3000
204	cgctgatcca	tatttcgaag	aagaagccgt	cgagcagcag	caccacatcc	acaccggctc	3060
		_	gccttaacaa				3120
			gaacctttac				3180
		_	gtgatacgaa			= =	3240
	_		atgacagtac		_	•	3300
		-	aaacacatca	-			3360
		-	aatagtcaac	-			3420
	5 5 5 2		ggttatgttg	_	_		3480
			ggtgcgaaga				3540
			ggacgttatt	_			3600
214			tcctccgacc		<u>-</u>		3660
			atgcttctcg	_	_		3720
			caagtacgct				3780
	-	_	tattgtgtgg	_		=	3840
			ctcggacaac				3900 3960
			gttgtttctc				4020
	=	= "	ccagcgtcga				4020
222	-	=	actaacttta	-			4140
	_		atggaaatga		=	=	4200
			gtgttcaatg				4260
	_		tgggccgcac gatctcgccg				4320
	-		ggaatggctc	-	=		4380
			cctgttcgat				4440
			gtttggagct				4500
	-		ggtttgagta		_		4560
		=	cccgaatgtt	=			4620
			cgggatcgtc				4680
			ttccgagatt				4740
	-		ctggatcttg				4800
		= =	gatgttgaga	=			4860
235			ttgaaacagt				4920
		-	attgatgaga	_	_		4980
			ttgatgaatc				5040
	55554	JJ: J	- 5 9		J- J-9	5 55 5	

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Input Set: N:\Crf3\RULE60\09963693.raw.txt
Output Set: N:\CRF4\08042003\I963693A.raw

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238 ggacgtatgc tggtgatgga gattatgtgg agagagatgt tcgagagaat gatgtgccaa
239 cgcgacgaaa tactggtgca tcaacatcaa gttacacagg tggtggtcca tattgcctaa
240 caaatcgtgg tggttcaaat gaacgaggag ccggtttcgg tgaagcagta cgattaactg
241 atggtgttgg aagtggacat ttaaatgatg atgattatgt tgaaaaagag atatcatcca
                                                                        5280
242 tggatacgcg ccggagcacg ggcgcctcga gctcttccta cggtgttcca cagacgaatt
                                                                       5340
243 qqaqtqqaaa tcqtqqtqcc acqtattata cqaqtaaaqc tcaacaqqca qcaactqcaq
                                                                       5400
244 cagcagcagc agcagcagct ctccaacagc aacaaaatgg tggtcgaggc gatcgattaa
                                                                       5460
245 ctcaactacc cggaactgga catttacaat cgacacgtgg tggacaagat ggagattata
                                                                       5520
246 ttgaaactga accgaaaaat tatagaaata atggatctcc atcgcgaaac ggcaacagcc
                                                                       5580
247 gtgacatttt caacggacgt tcggctttcg gtgaaaatga gcatctaatc gaggataatg
                                                                       5640
248 agcatcatcc acttgtctga aacccccaaa aaatcccgcc tcttaaatta taaattatct
                                                                       5700
249 cccacattat catatctcta cacgaatatc ggattttttt tcagattttt tctgaaaaat 5760
250 totgaataat tttaccccat ttttcaaatc totgtatttt tttttgttat tacccc
                                                                        5816
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255 <211> LENGTH: 1724
256 <212> TYPE: PRT
257 <213> ORGANISM: Caenorhabditis elegans
259 <400> SEQUENCE: 12
260 Met Thr Ser Leu Met Leu Leu Leu Phe Ala Phe Val Gln Pro Cys
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262 Ala Ser Ile Val Glu Lys Arg Cys Gly Pro Ile Asp Ile Arg Asn Arg
                                    25
                20
264 Pro Trp Asp Ile Lys Pro Gln Trp Ser Lys Leu Gly Asp Pro Asn Glu
            35
                                40
266 Lys Asp Leu Ala Gly Gln Arg Met Val Asn Cys Thr Val Val Glu Gly
                            55
267
268 Ser Leu Thr Ile Ser Phe Val Leu Lys His Lys Thr Lys Ala Gln Glu
269 65
                        70
                                            75
270 Glu Met His Arg Ser Leu Gln Pro Arg Tyr Ser Gln Asp Glu Phe Ile
271
                    85
                                        90
272 Thr Phe Pro His Leu Arg Glu Ile Thr Gly Thr Leu Leu Val Phe Glu
273
                100
                                    105
274 Thr Glu Gly Leu Val Asp Leu Arg Lys Ile Phe Pro Asn Leu Arg Val
275
            115
                                120
                                                    125
276 Ile Gly Gly Arg Ser Leu Ile Gln His Tyr Ala Leu Ile Ile Tyr Arg
277
        130
                            135
                                                140
278 Asn Pro Asp Leu Glu Ile Gly Leu Asp Lys Leu Ser Val Ile Arg Asn
                        150
                                            155
279 145
280 Gly Gly Val Arg Ile Ile Asp Asn Arg Lys Leu Cys Tyr Thr Lys Thr
                    165
                                        170
281
                                                            175
282 Ile Asp Trp Lys His Leu Ile Thr Ser Ser Ile Asn Asp Val Val Val
283
                180
                                    185
                                                        190
284 Asp Asn Ala Ala Glu Tyr Ala Val Thr Glu Thr Gly Leu Met Cys Pro
            195
                                200
                                                    205
286 Arq Gly Ala Cys Glu Glu Asp Lys Gly Glu Ser Lys Cys His Tyr Leu
                            215
288 Glu Glu Lys Asn Gln Glu Gln Gly Val Glu Arg Val Gln Ser Cys Trp
                      230
                                     235
289 225
290 Ser Asn Thr Thr Cys Gln Lys Ser Cys Ala Tyr Asp Arg Leu Leu Pro
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/04/2003 PATENT APPLICATION: US/09/963,693A TIME: 14:43:18

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:11; N Pos. 2050
Seq#:31; N Pos. 3,12,15,18,21
Seq#:32; N Pos. 7,8,9,12,15
Seq#:115; Xaa Pos. 4,5,11,12,16,37,38,39,41,42,43,47
Seq#:126; Xaa Pos. 20,21,22
Seq#:127; Xaa Pos. 20,21,22
Seq#:128; Xaa Pos. 20,21,22
Seq#:129; Xaa Pos. 20,21,22
Seq#:130; Xaa Pos. 20,21,22
Seq#:131; Xaa Pos. 20,21,22
Seq#:132; Xaa Pos. 20,21,22
Seq#:133; Xaa Pos. 20,21,22
Seq#:134; Xaa Pos. 20,21,22
Seq#:135; Xaa Pos. 20,21,22
Seg#:136; Xaa Pos. 20,21,22
Seq#:137; Xaa Pos. 20,21,22
Seq#:138; Xaa Pos. 20,21,22
Seq#:139; Xaa Pos. 20,21,22
Seq#:140; Xaa Pos. 20,21,22
Seq#:141; Xaa Pos. 20,21,22
Seq#:142; Xaa Pos. 20,21,22
Seq#:143; Xaa Pos. 20,21,22
Seq#:144; Xaa Pos. 20,21,22
Seq#:145; Xaa Pos. 20,21,22
Seq#:146; Xaa Pos. 20,21,22
Seq#:147; Xaa Pos. 20,21,22
Seq#:148; Xaa Pos. 20,21,22
Seq#:149; Xaa Pos. 20,21,22
Seq#:150; Xaa Pos. 20,21,22
Seq#:151; Xaa Pos. 20,21,22
Seq#:152; Xaa Pos. 20,21,22
Seq#:153; Xaa Pos. 20,21,22
Seq#:238; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96
Seq#:304; Xaa Pos. 4,5
Seq#:323; Xaa Pos. 2,3,5,6
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VERIFICATION SUMMARY

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DATE: 08/04/2003

Input Set : N:\Crf3\RULE60\09963693.raw.txt
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```
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2040
L:799 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:803 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:814 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:818 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:3338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
M:341 Repeated in SeqNo=115
L:3560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16
L:3578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16
L:3596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:16
L:3614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:16
L:3632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:16
L:3650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:16
L:3668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:16
L:3686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:16
L:3704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:16
L:3722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:16
L:3740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:16
L:3758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:16
L:3776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:16
L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:16
L:3812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:16
L:3830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:16
L:3848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:16
L:3866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:16
L:3884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:16
L:3902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:16
L:3920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:16
L:3938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:16
L:3956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:16
L:3974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:16
L:3992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:16
L:4010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:16
L:4028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:16
L:4046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:16
L:5914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:80
L:6809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0
L:7349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323 after pos.:0
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